

AMENDMENTS TO THE CLAIMS

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1. (currently amended) A display unit comprising:
a matrix of independently controllable pixels comprising m rows and n columns of discrete pixels, said matrix for generating an image therein by light modulation and wherein said image is representative of information stored in a frame buffer memory; and

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a pixel border having a predetermined width, said pixel border surrounding said matrix of independently controllable discrete pixels and comprising dummy pixels, wherein each dummy pixel is analogous to a pixel of said matrix but without containing an active element, and wherein said dummy pixels allow light to pass through to improve contrast of edge-displayed images of said matrix.

2. (original) A display unit as described in Claim 1 and further comprising a back lighting element for illuminating said matrix and said pixel border.

3. (original) A display unit as described in Claim 2 wherein each pixel of said matrix comprises: a red subpixel having a first active element; a green subpixel having a second active element; and a blue subpixel having a third active element.

4. (original) A display unit as described in Claim 3 wherein each dummy pixel of said matrix comprises: a red sub-dummy-pixel; a green sub-dummy-pixel; and a blue sub-dummy-pixel.

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5. (original) A display unit as described in Claim 1 wherein said predetermined width is two pixels.

6. (original) A display unit as described in Claim 1 wherein said matrix comprises 160 rows and 160 columns of discrete pixels.

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7. (original) A display unit as described in Claim 1 wherein said matrix is fabricated using thin film transistor liquid crystal display technology.

8. (currently amended) A portable electronic device comprising:
a processor coupled to a bus;
a memory unit coupled to said bus;
a user input device coupled to said bus; and
a display unit coupled to said bus and comprising:
a matrix of independently controllable pixels comprising m rows and n columns of discrete pixels, said matrix for generating an image therein by light modulation and wherein said image is representative of information stored in a frame buffer memory; and

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a pixel border having a predetermined width, said pixel border surrounding said matrix of independently controllable discrete pixels and comprising dummy pixels, wherein each dummy pixel is analogous to a pixel of said matrix but without containing an active element, and wherein said dummy pixels allow light to pass through to improve contrast of edge-displayed images of said matrix.

9. (original) A portable electronic device as described in Claim 8 further comprising a back lighting element for illuminating said matrix and said pixel border.

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10. (original) A portable electronic device as described in Claim 9 wherein each pixel of said matrix comprises: a red subpixel having a first active element; a green subpixel having a second active element; and a blue subpixel having a third active element.

11. (original) A portable electronic device as described in Claim 10 wherein each dummy pixel of said matrix comprises: a red sub-dummy-pixel; a green sub-dummy-pixel; and a blue sub-dummy-pixel.

12. (original) A portable electronic device as described in Claim 8 wherein said predetermined width is two pixels.

13. (original) A portable electronic device as described in Claim 8 wherein said matrix comprises 160 rows and 160 columns of discrete pixels.

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14. (currently amended) A portable electronic device as described in Claim 7 8 wherein said matrix is fabricated using thin film transistor liquid crystal display technology.

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15. (currently amended) A display unit comprising:
a matrix of independently controllable pixels comprising m rows and n columns of discrete pixels, said matrix for generating an image therein by light modulation and wherein said image is representative of information stored in a frame buffer memory and wherein each pixel of said matrix comprises a respective active element and respective filter elements;

a pixel border having a predetermined width, said pixel border surrounding said matrix of independently controllable discrete pixels and comprising dummy pixels, wherein each dummy pixel comprises respective filter elements without an active element, and wherein said dummy pixels allow light to pass through to improve contrast of edge-displayed images of said matrix; and

a back lighting element for illuminating said matrix and said pixel border.

16. (original) A display unit as described in Claim 15 wherein said respective filter elements of each pixel of said matrix comprise: a red filter; a green filter; and a blue filter.

17. (original) A display unit as described in Claim 16 wherein said respective filter elements of each dummy pixel of said matrix comprise: a red filter; a green filter; and a blue filter.

18. (original) A display unit as described in Claim 15 wherein said predetermined width is two pixels.

19. (original) A display unit as described in Claim 15 wherein said matrix comprises 160 rows and 160 columns of discrete pixels.

20. (original) A display unit as described in Claim 15 wherein said matrix is fabricated using thin film transistor liquid crystal display technology.